TOSHIBA

OWNER'S MANUAL

Color Television

COLORSTREAM® THEATERVIEW SD

Important Safeguards
Welcome to Toshiba
Connecting your TV
Using the remote control
Setting up your TV
Using the TV's features
Appendix

Owner's Record

The model number and serial number are on the back of your TV. Record these numbers in the spaces below. Refer to these numbers whenever you communicate with your Toshiba dealer about this TV.

Model number:

Serial number:

27D47
32D47

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Dear Customer,

Thank you for purchasing this Toshiba TV. This manual will help you use many exciting features of your new TV. **Before operating the TV, please read this manual completely**, and keep it nearby for future reference.

Safety Precautions

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning symbol in the triangle tells you that the voltage inside this product may be strong enough to cause an electric shock. DO NOT TRY TO SERVICE THIS PRODUCT YOURSELF.

The exclamation mark in the triangle tells you that important operating and maintenance instructions follow this symbol.

CAUTION

TO PREVENT ELECTRIC SHOCK DO NOT USE THIS POLARIZED PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

NOTE TO CATV INSTALLERS

This is a reminder to call the CATV system installer's attention to Article 820-40 of the NEC, which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical. For additional antenna grounding information, see items 27 and 28 on page 4.

NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE DISPLAY

If a fixed (non-moving) pattern or image remains on the TV screen for extended periods of time, the image can become permanently ingrained in the cathode ray tube(s) of the TV and cause subtle but permanent ghost images. This type of damage is **NOT COVERED BY YOUR WARRANTY.** (See item 34 on page 4 for details.)

Manufactured under licence from Dolby Laboratories.

Child Safety

It Makes A Difference Where Your TV Stands

Congratulations on your purchase! As you enjoy your new TV, keep these safety tips in mind:

The Issue

- ❑ If you are like most consumers, you have a TV in your home. Many homes, in fact, have more than one TV.
- ❑ The home theater entertainment experience is a growing trend, and larger TVs are popular purchases; however, they are not always supported on the proper TV stands.
- ❑ Sometimes TVs are improperly secured or inappropriately situated on dressers, bookcases, shelves, desks, audio speakers, chests, or carts. As a result, TVs may fall over, causing unnecessary injury.

Toshiba Cares!

- ❑ The consumer electronics industry is committed to making home entertainment enjoyable and safe.
- ❑ The Consumer Electronics Association formed the Home Entertainment Support Safety Committee, comprised of TV and consumer electronics furniture manufacturers, to advocate children's safety and educate consumers and their families about television safety.

Tune Into Safety

- ❑ One size does NOT fit all! Use appropriate furniture large enough to support the weight of your TV (and other electronic components).
- ❑ Use appropriate angle braces, straps, and anchors to secure your furniture to the wall (but never screw anything directly into the TV).
- ❑ Carefully read and understand the other enclosed instructions for proper use of this product.
- ❑ Do not allow children to climb on or play with furniture and TVs.
- ❑ Avoid placing any item on top of your TV (such as a VCR, remote control, or toy) that a curious child may reach for.
- ❑ Remember that children can become excited while watching a program and can potentially push or pull a TV over.
- ❑ Share our safety message about this hidden hazard of the home with your family and friends. Thank you!

CEA Consumer Electronics Association

2500 Wilson Blvd.
Arlington, VA 22201 U.S.A.
www.CE.org

CEA is the Sponsor, Producer and Manager of the International CES®

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Important Safety Instructions

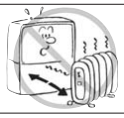
1) **Read these instructions.**
2) **Keep these instructions.**
3) **Heed all warnings.**
4) **Follow all instructions.**

5) **Do not use this apparatus near water.**

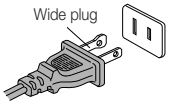
6) **Clean only with a dry cloth.**

7) **Do not block any ventilation openings.** Install in accordance with the manufacturer's instructions.

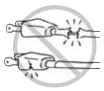
8) **Do not install near any heat sources** such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



9) **Do not defeat the safety purpose of the polarized or grounding type plug.** A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.



10) **Protect the power cord** from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where it exits the apparatus.



11) **Only use attachments/accessories specified by the manufacturer.**

12) **Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.** When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13) **Unplug this apparatus during lightning storms or when unused for long periods of time.**

14) **Refer all servicing to qualified service personnel.** Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Additional Safety Precautions

14a) **CAUTION:** If the TV is dropped and the cabinet or enclosure surface has been damaged or the TV does not operate normally, take the following precautions:

- ALWAYS turn off the TV and unplug the power cord to avoid possible electric shock or fire.
- To prevent personal injury, never handle the damaged television.
- ALWAYS contact a service technician to inspect the TV any time it has been damaged or dropped.

15) **CAUTION:** To reduce the risk of electric shock, do not use the polarized plug with an extension cord, receptacle, or other outlet unless the blades can be inserted completely to prevent blade exposure.

Installation, Care, and Service

Installation

Follow these recommendations and precautions and heed all warnings when installing your TV:

16) **WARNING:** To prevent the spread of fire, keep candles or other open flames away from this product at all times.

17) Never modify this equipment. Changes or modifications may void: a) the warranty, and b) the user's authority to operate this equipment under the rules of the Federal Communications Commission.

18) **DANGER: RISK OF SERIOUS PERSONAL INJURY, DEATH, OR EQUIPMENT DAMAGE!** Never place the TV on an unstable cart, stand, or table. The TV may fall, causing serious personal injury, death, or serious damage to the TV.

19) Never place or store the TV in direct sunlight; hot, humid areas; areas subject to excessive dust or vibration; or locations with temperatures at or below 41°F (5°C).

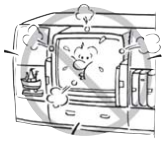
20) Always place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit.

21) Never place items such as vases, aquariums, or candles on top of the TV.

22) Never block or cover the slots or openings in the TV cabinet back, bottom, and sides. Never place the TV:

- on a bed, sofa, rug, or similar surface;
- too close to drapes, curtains, or walls; or
- in a confined space such as a bookcase, built-in cabinet, or any other place with poor ventilation.

The slots and openings are provided to protect the TV from overheating and to help maintain reliable operation of the TV.



23) Always place the back of the television at least one (1) inch away from any vertical surface (such as a wall) to allow proper ventilation.

24) Never allow anything to rest on or roll over the power cord, and never place the TV where the power cord is subject to wear or abuse.

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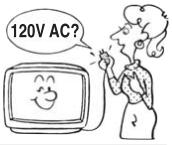
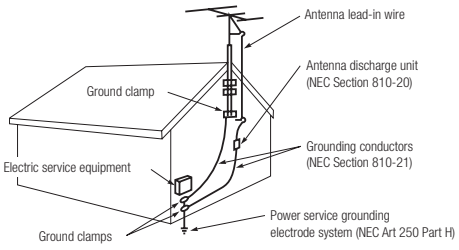
25) Never overload wall outlets and extension cords.

26) Always operate this equipment from a 120 V AC, 60 Hz power source only.



27) Always make sure the antenna system is properly grounded to provide adequate protection against voltage surges and built-up static charges (see Section 810 of the National Electric Code).


Antenna lead-in wire
Antenna discharge unit (NEC Section 810-20)
Ground clamp
Grounding conductors (NEC Section 810-21)
Electric service equipment
Power service grounding electrode system (NEC Art 250 Part H)
Ground clamps

28) **DANGER: RISK OF SERIOUS PERSONAL INJURY OR DEATH!**

- Use extreme care to make sure you are never in a position where your body (or any item you are in contact with, such as a ladder or screwdriver) can accidentally touch overhead power lines. Never locate the antenna near overhead power lines or other electrical circuits.
- Never attempt to install any of the following during lightning activity:
a) an antenna system; or b) cables, wires, or any home theater component connected to an antenna or phone system.

Care

For better performance and safer operation of your TOSHIBA TV, follow these recommendations and precautions:

29) Always sit approximately 10–25 feet away from the TV and as directly in front of it as possible. The picture can appear dull if you sit too far to the left or right of the TV, or if sunlight or room lights reflect on the screen. Turn the TV off to check for reflections on the screen, and then remove the source of reflections while viewing the TV.

30) Always unplug the TV before cleaning. Never use liquid or aerosol cleaners.

31) **WARNING: RISK OF ELECTRIC SHOCK!** Never spill liquids or push objects of any kind into the TV cabinet slots.

32) For added protection of your TV from lightning and power surges, always unplug the power cord and disconnect the antenna from the TV if you leave the TV unattended or unused for long periods of time.

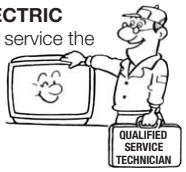
33) During normal use, the TV may make occasional snapping or popping sounds. This is normal, especially when the unit is being turned on or off. If these sounds become frequent or continuous, unplug the power cord and contact a Toshiba Authorized Service Center.

34) **Possible Adverse Effects on TV Picture Display:** If a fixed (non-moving) pattern or image remains on the TV screen for extended periods of time, the image can become permanently ingrained in the cathode ray tube(s) of the TV and cause subtle but permanent ghost images. **This type of damage is NOT COVERED BY YOUR WARRANTY.** Never leave the TV on for extended periods of time while it is displaying the following images or formats:

- **Fixed Images,** including but not limited to PIP/POP windows, closed captions, video game patterns, TV station logos, stock tickers, and websites.
- **Special Formats** that do not use the entire screen, including but not limited to widescreen or letterbox format media viewed on a 4:3 aspect ratio display (with gray or black bars at the top and bottom of the screen); or 4:3 aspect ratio format media viewed on a widescreen/16:9 aspect ratio display (with gray or black bars on the left and right sides of the screen).

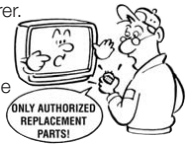
Service

35) **WARNING: RISK OF ELECTRIC SHOCK!** Never attempt to service the TV yourself. Opening and removing the covers may expose you to dangerous voltage or other hazards. Refer all servicing to a Toshiba Authorized Service Center.



36) If you have the TV serviced:

- Ask the service technician to use only replacement parts specified by the manufacturer.
- Upon completion of service, ask the service technician to perform routine safety checks to determine that the TV is in safe operating condition.



37) When the TV reaches the end of its useful life, ask a qualified service technician to properly dispose of the TV. Improper disposal may result in a picture tube implosion and possible personal injury.

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Welcome to Toshiba

Congratulations! You have purchased one of the finest color TVs on the market. The goal of this manual is to guide you through setting up and operating your Toshiba TV as quickly as possible.

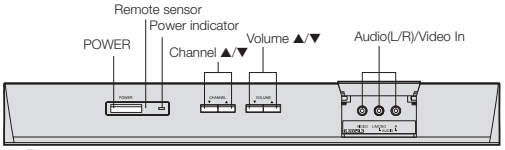
You may need to purchase other audio or video cables to connect your equipment. See “Connecting your TV” on page 7 for more information.

Please read all the safety and operating instructions carefully before you begin.

Exploring your new TV

You can operate your TV by using the buttons on the front panel or the remote control. The front and back panels provide all the inputs you will need to connect other equipment to your TV.

TV front panel



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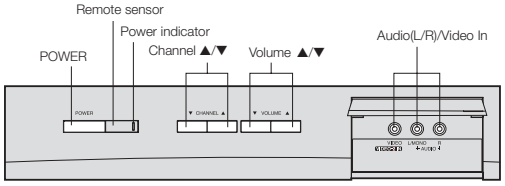

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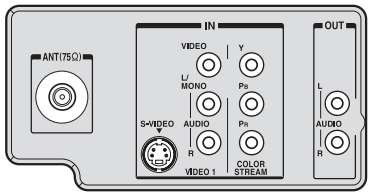
TV back panel



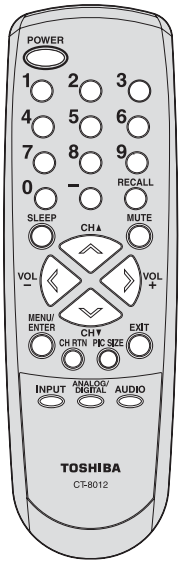
Selecting a location for the TV

- Place the TV on the floor or on a sturdy platform in a location where light does not directly hit the screen.
- Place the TV far enough from the walls to allow proper ventilation. Inadequate ventilation may cause overheating, which may damage the TV. This type of damage is NOT COVERED BY YOUR WARRANTY.

The STARTING SETUP feature appears the first time you turn on the TV. See page 13 for details.

Notes:

- *To open the menu system, you can either press MENU on the remote control or simultaneously press both VOLUME buttons (▲ and ▼) for more than 1 second on the front panel.*
- *When a menu is open, to select the desired setting, you can use either the arrow buttons on the remote control or the CHANNEL ▲/▼ and VOLUME ▲/▼ buttons on the front panel.*



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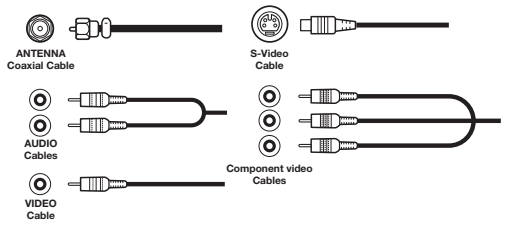
Connecting your TV

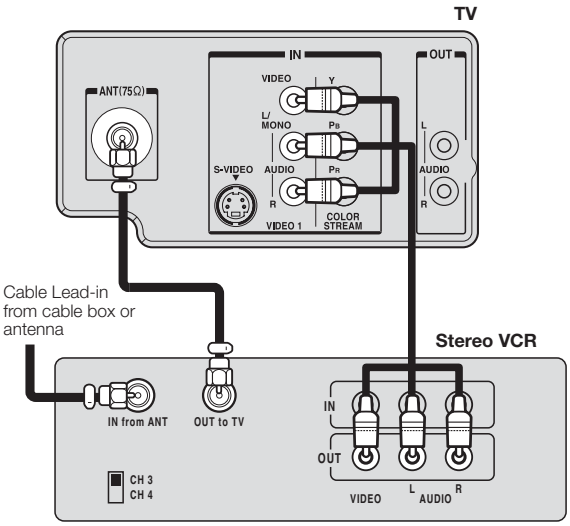
- A coaxial cable is the standard cable that comes in from your antenna or cable converter box. Coaxial cables use "F" connectors.
- Standard A/V (audio/video) cables are usually color coded according to use: yellow for video and red and white for audio. The red audio cable is for the stereo right channel, and the white audio cable is for the stereo left (or mono) channel. If you look at the rear panel of the TV, you will see that the terminals are color coded in the same manner as the cables.
- S-video cables provide better picture performance than standard video cables. S-video cables can only be used with S-video compatible components.
- Component video cables provide better picture performance than S-video cables. Component video cables can only be used with component video compatible components.



NOTICE: RISK OF EQUIPMENT DAMAGE!
Do not plug in any power cords until you have finished connecting all equipment.

Connecting a VCR

This connection allows you to watch local channels and video programs, play or record on the VCR while watching TV, and record from one channel while watching another channel.



You will need:
- two coaxial cables
- one set of standard A/V cables

Note:
If using a mono VCR, connect L/Mono to VCR Audio OUT using only one audio cable. For better picture quality, if your VCR has S-video, you can use an S-video cable instead of the standard video cable. Do not connect both an S-video cable and a standard video cable at the same time or the picture performance will be unacceptable.

The unauthorized recording, use, distribution or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

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Connecting a cable converter box or Antenna

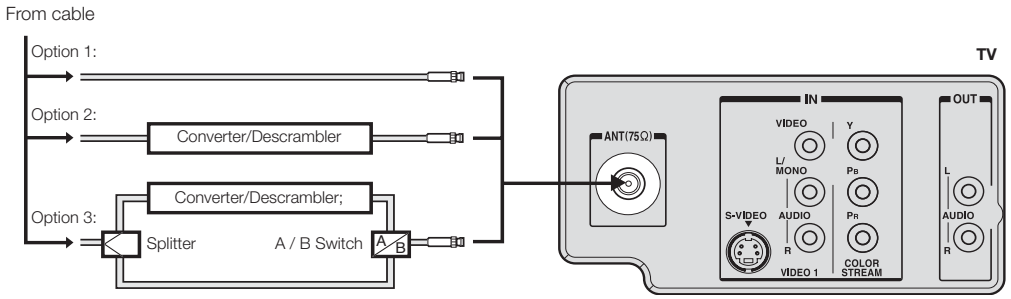
This television has an extended tuning range and can tune most cable channels without using a cable company supplied converter box. Some cable companies offer “premium pay channels” in which the signal is scrambled. Descrambling these signals for normal viewing requires the use of a descrambler device, which is generally provided by the cable company.

Option 1: For Subscribers to Basic Cable TV Service
For basic cable service not requiring a Converter/Descrambler box, connect the incoming 75 ohm Coaxial Cable directly to the Antenna Jack on the back of the television.

Option 2: For Subscribers to Scrambled Cable TV Service
If you subscribe to a cable service that requires the use of a Converter/Descrambler box, connect the incoming cable to the Converter/Descrambler box and connect the output of the box to the Antenna Jack on the back of the television. Follow the connections shown below. Set the television to the output of the Converter/Descrambler box (usually channel 3 or 4) and use the Converter/Descrambler box to select channels.

Option 3: For Subscribers to Unscrambled Basic Cable with Scrambled Premium Channels
If you subscribe to a cable service in which basic cable channels are unscrambled and premium channels require the use of a Converter/Descrambler box, you may wish to use a two-set signal splitter (sometimes called a “two-set coupler”) and an A/B Switch box from the cable installer or an electronics supply store. Follow the connections shown below. With the switch in the “B” position, you can directly tune any nonscrambled channels on your TV. With the switch in the “A” position, tune your TV to the output of the Converter/Descrambler box (usually channel 3 or 4) and use the box to tune scrambled channels.

Note:
When you use a converter box with your TV, there may be features that you cannot program using the remote control, such as labeling channels, blocking channels, and programming your favorite channels.



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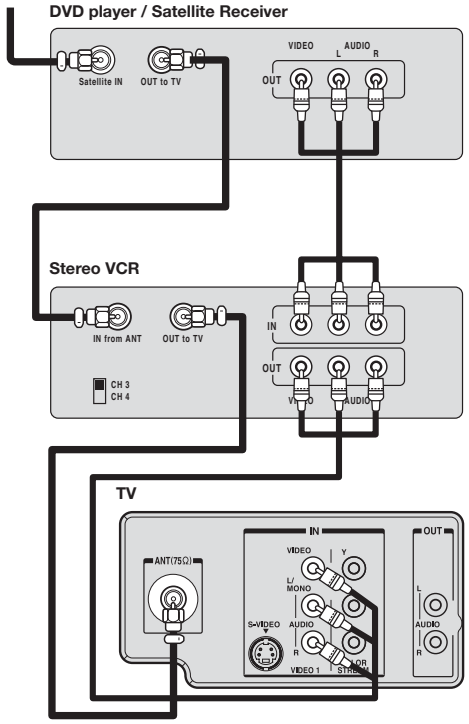
Connecting a DVD player/satellite receiver and a VCR

This connection allows you to watch DVD/satellite, VCR, or TV programs. You can record from the satellite receiver and TV, as well as record one TV channel while watching another channel.

From satellite



You will need:

- three coaxial cables
- two sets of standard A/V cables

Note:

If using a mono VCR, connect L/Mono to VCR Audio OUT using only one audio cable. For better picture quality, if your VCR has S-video, you can use an S-video cable instead of the standard video cable. Do not connect both an S-video cable and a standard video cable at the same time or the picture performance will be unacceptable.

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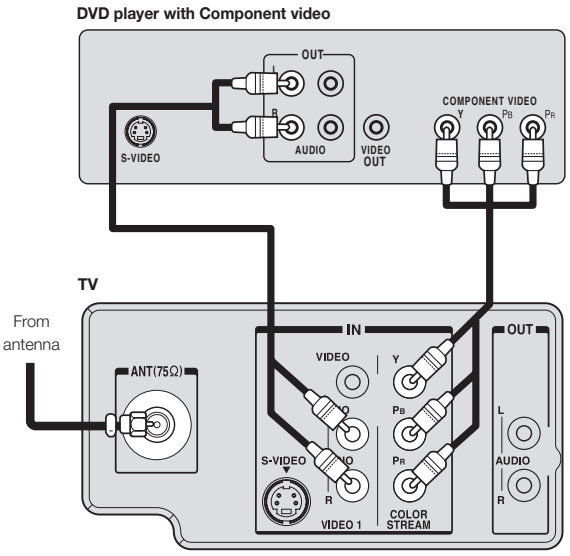
Connecting a DVD player with ColorStream® (component video)

This connection allows you to watch DVD or TV programs. Your TV is capable of using ColorStream (component video). Connecting your TV to a component video compatible DVD player, such as a Toshiba DVD player with ColorStream®, can greatly enhance picture quality and performance.

DVD player with Component video



You will need:

- one coaxial cable
- one set of component video cables
- one pair of standard audio cables

Note:

The ColorStream inputs on this TV are for use with devices that output 480i interlaced signals ONLY. This TV will not accept or display 480p or 720p progressive scan signals or 1080i interlaced high-definition signals. If you connect a high-definition set-top receiver, 480p progressive scan DVD player, or other similar device to the TV's ColorStream inputs, YOU MUST SWITCH THE DEVICE'S OUTPUT TO 480i INTERLACED MODE FIRST. Failure to do this will display "NO SIGNAL OR NOT SUPPORTED VIDEO RESOLUTION" on a black screen.

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Connecting a camcorder

This connection allows you to watch videos recorded on a camcorder.

You will need:
- one S-video cable or standard video cable
- one pair of standard audio cables

Note:
For better picture quality, if your camcorder has S-video, you can use an S-video cable (plus the standard audio cables) instead of a standard video cable. Do not connect both a standard video cable and an S-video cable at the same time or the picture performance will be unacceptable.

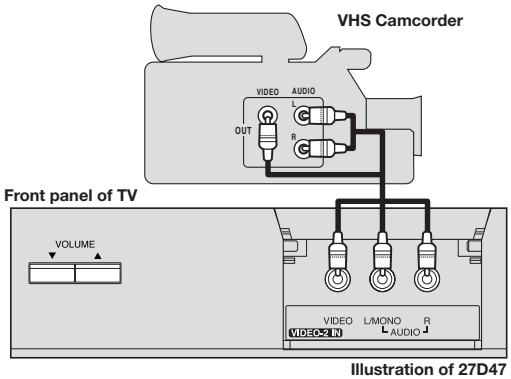
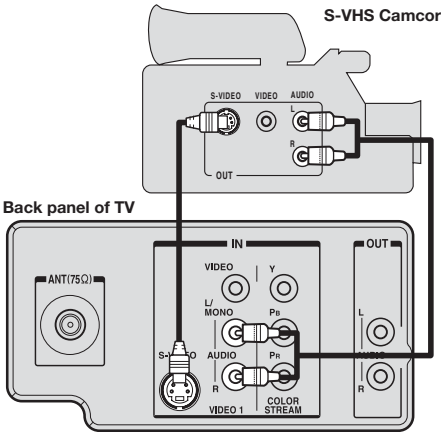
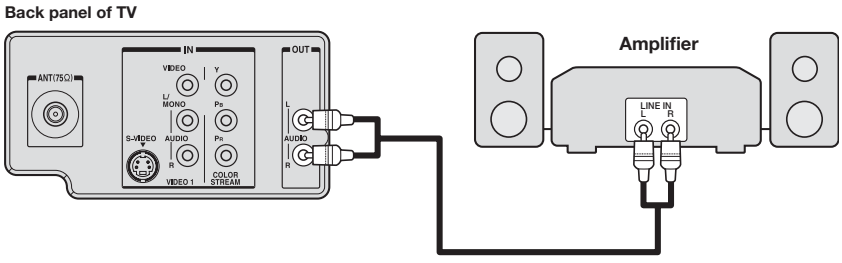


Illustration of 27D47



Connecting an audio system

You will need:
- one set of standard audio cables



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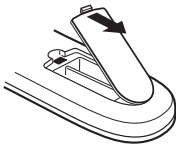
Using the remote control

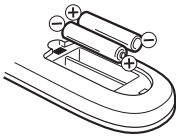
Installing the remote control batteries

To install the batteries:

1. Open the battery cover on the back of the remote control.



2. Install two “AAA” size batteries. Match the + and – signs on the batteries to the signs on the battery compartment.



3. Close the battery cover on the remote control until the lock snaps.

Caution:

- *Never throw batteries into a fire.*

Note:

- *Be sure to use AAA size batteries.*
- *Dispose of batteries in a designated disposal area.*
- *Batteries should always be disposed of with the environment in mind. Always dispose of batteries in accordance with applicable laws and regulations.*
- *If the remote control does not operate correctly, or if the operating range becomes reduced, replace batteries with new ones.*
- *When necessary to replace batteries in the remote control, always replace both batteries with new ones. Never mix battery types or use new and used batteries in combination.*
- *Always remove the batteries from the remote control if they are dead or if the remote control is not to be used for an extended period of time. This will prevent battery acid from leaking into the battery compartment.*

Using the remote control

Learning about the remote control

POWER turns the TV on and off

CHANNEL NUMBERS allow direct access to channels (page 15)

RECALL displays status information on-screen (page 17)

SLEEP programs the TV to turn off at a set time (page 21)

MUTE turns off the sound (page 22)

CH ▲ / ▼ cycles through programmed channels (page 14)

VOLUME + / – adjusts the volume level

∧ ∨ < > selects or adjusts on-screen menus (page 13)

MENU/ENTER allows access to programming menus, and sets programmed menu information (page 13)

EXIT closes on-screen menus (page 13)

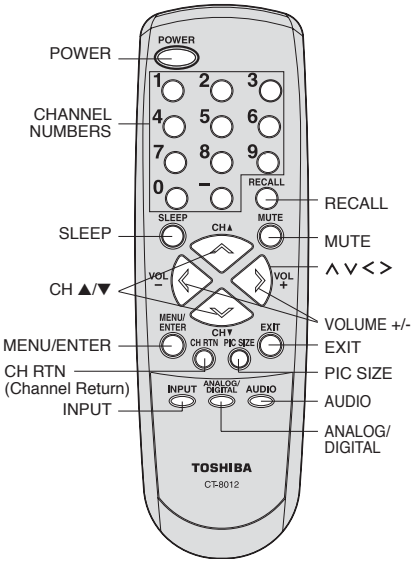
CH RTN (Channel Return) returns to the last viewed channel (page 15)

PIC SIZE cycles through the three picture sizes—4:3, 16:9, ZOOM. (page 19)

INPUT selects the audio/video input source (page 18)

ANALOG/DIGITAL selects analog/digital mode (page 14)

AUDIO selects the desired sound (page 22)



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Setting up your TV

After you have installed the batteries and programmed the remote control, you need to set some preferences on the TV using the menu system. You can access the menu system with the buttons on the remote control.

- When you make a menu selection, your changes occur immediately. You do not have to press MENU or EXIT to save your changes.
- After 60 seconds, the menu screen will automatically close if you do not make a selection. Your changes will still be saved.
- When you are finished programming the menus, press EXIT.

Starting setup

The STARTING SETUP feature appears the first time you turn on the TV, and helps you select the menu language, specify the TV/CABLE setting, and program channels automatically.

IMPORTANT: You must connect an antenna or cable TV system first. See "Connecting your TV" on pages 7-10 for details.

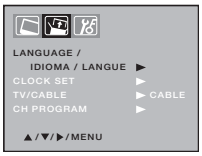
1. Press POWER to turn on the TV. The STARTING SETUP function begins and the language setup menu appears on the screen. Press ∧ or ∨ to select your desired language, then press ENTER.
2. Press ∧ or ∨ to select TV or CABLE, then press ENTER.
3. Press ∧ or ∨ to select START, and then press ENTER, which starts the AUTO SETUP.
   Note: *To cancel the setup and return to the regular TV screen, press ∧ or ∨ to select CANCEL and press ENTER.*
4. When the AUTO SETUP is complete, the regular TV screen appears.
   Note:
   - *AUTO SETUP of channels may take 15–30 minutes to complete, depending on your regional cable service.*
   - *To cancel the AUTO SETUP and return to the regular TV screen, press EXIT.*

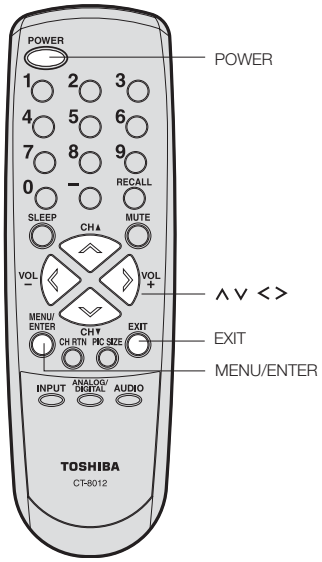
Changing the on-screen display language

You can choose from three different languages (English, French, and Spanish) for the on-screen displays of adjustment menus and messages.

To select a language:

1. Press MENU, then press < or > until the SETUP menu appears.
2. Press ∧ or ∨ to highlight LANGUAGE/ IDIOMA/LANGUE, then press >.
3. Press ∧ or ∨ to highlight your desired language, then press ENTER.
4. Press MENU repeatedly until the menu screen is cleared.
   Note: *To return to normal viewing immediately, press EXIT.*





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Adding channels to the TV's memory

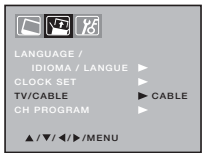
When you press Channel ▲ / ▼ on the TV or CH ▲ / ▼ on the remote control, your TV will stop only on the channels you have programmed into the TV's channel memory. Follow the steps below to program channels into the channel memory.

Programming channels automatically

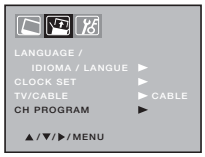
Your TV can automatically detect all active channels and store them in its memory. After the TV has stored the channels in its memory automatically, you can add or erase channels manually.

To add channels automatically:

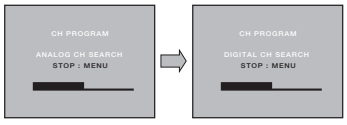
1. Press MENU, then press < or > to display the SETUP menu.
2. Press ∧ or ∨ until the TV/CABLE selection is highlighted.
3. Press < or > to select either TV or CABLE, depending on which you use.
   If you use an antenna, choose TV.
   If you use cable, choose CABLE.



4. Press ∨ until the CH PROGRAM selection is highlighted.



5. Press > to start channel programming. The TV will automatically cycle through all the TV or Cable channels (depending on which you selected), and store all active channels in the channel memory.



Analog tuning Digital tuning

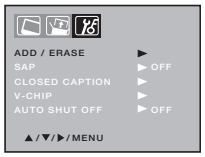
6. When channel programming is complete, the message "COMPLETED" appears.
7. Press CH ▲ or ▼ to view the programmed channels.

Adding and erasing channels manually

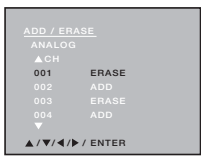
After you have programmed the channels automatically, you can add or erase specific channels manually.

To add or erase channels manually (analog mode):

1. Press ANALOG/DIGITAL to select the analog mode.
2. Press MENU then press < or > to display the OPTION menu.
3. Press ∧ or ∨ until the ADD/ERASE selection is highlighted.
4. Press > to display the ADD/ERASE menu.



5. Select the desired channel to be memorized or deleted using ∧ or ∨. Press < or > to select either ADD or ERASE.

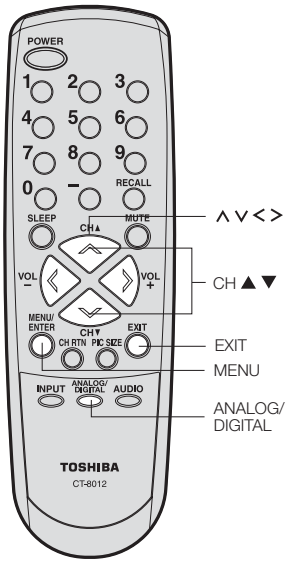


6. Repeat step 5 for other channels you want to add or erase.
7. Press MENU repeatedly until the menu screen is cleared.

Note: *To return to normal viewing immediately, press EXIT.*

Note:

If the desired channel is not stored in the channel memory, add the channel manually (see "Adding and erasing channels manually," below).



Setting up your TV

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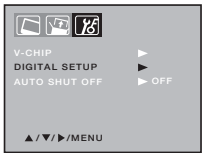
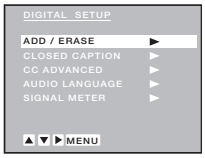
To add or erase channels manually (digital mode):

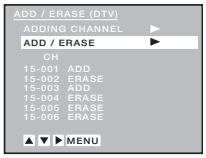
1. Press ANALOG/DIGITAL to select the digital mode.
2. Press MENU, then press < or > to display the OPTION menu.
3. Press ∧ or ∨ until the DIGITAL SETUP selection is highlighted, then press >.



4. Press ∧ or ∨ to select ADD/ERASE, then press >.



5. Press ∧ or ∨ to select ADD/ERASE, then press >.
6. Select the desired channel to be memorized or deleted using ∧ or ∨. Press < or > to select either ADD or ERASE.
7. Repeat step 6 for other channels you want to add or erase.
8. Press MENU repeatedly until the menu screen is cleared.



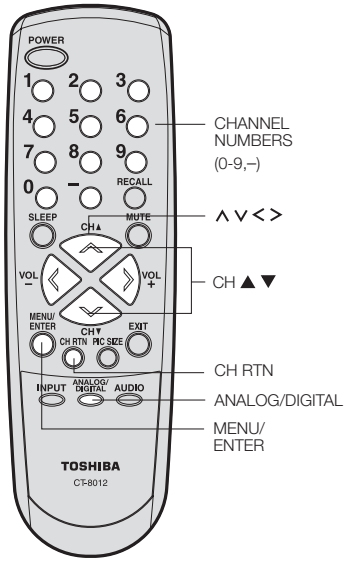
To add a digital channel you are watching:
Select a channel you want to add. Press ∧ or ∨ to select ADDING CHANNEL in step 5 above, then press >.

Changing channels

To change to the next programmed channel:
Press Channel ▲ / ▼ on the TV or CH ▲ / ▼ on the remote control.

To change to a specific analog channel:
Press the Channel Number buttons (0-9) on the remote control. For example, to select channel 125, press 1, 2, 5.

To change to a specific digital channel:
Press the first 3 digits, then press -, followed by the remaining 3 digits. For example, to select channel 015-001, press 0, 1, 5, –, 0, 0, 1.



Note:
Digital cable channels may be represented by channel numbers that include a "dash" (e.g., 85–002). These digital channel numbers may not match the numbers in the channel line-up provided by your cable company. This is not a malfunction.

Using the TV's features

Switching between two channels

You can switch between two channels without entering an actual channel number each time.

To switch between two channels:

1. Select the first channel you want to view.
2. Select a second channel using the Channel Number buttons (0-9, –).
3. Press CH RTN. The previous channel will be displayed.

Each time you press CH RTN, the TV will switch back and forth between the two channels.

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Setting the V-Chip

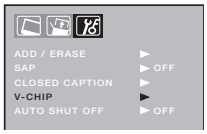
Note: The V-Chip feature is available for the U.S. V-Chip system only. The Canadian V-Chip system is not supported.
You can prevent others from viewing certain programs or channels by blocking them using the V-Chip feature.

Selecting a password

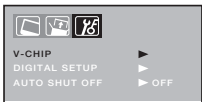
Before you can use the V-Chip feature to block programs and channels, you must select a password. The password you select prevents others from changing the rating limits you set.

To select your password and access the V-CHIP menu:

1. Press MENU, then press < or > to display the OPTION menu.
2. Press ∧ or ∨ to select V-CHIP, then press >.

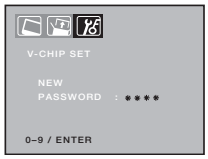


Analog mode

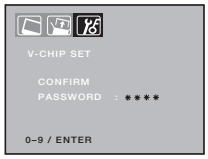


Digital mode

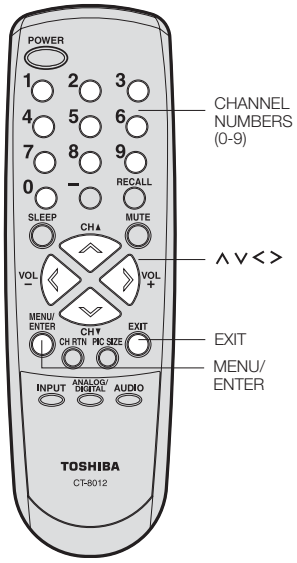
3. Use the Channel Number buttons (0-9) to enter your password.
   If you are accessing the V-CHIP menu for the first time, select a four-digit number to be your password. Press ENTER.



4. Enter the password again to confirm it, and then press ENTER.
   The V-CHIP menu appears.



5. You may now set up the V-CHIP menu. See "Using the V-Chip (parental control) feature" (page 17).



To change your password:

1. Press MENU, then press < or > to display the OPTION menu.
2. Press ∧ or ∨ to select V-CHIP, then press >.
3. Use the Channel Number buttons (0-9) to enter your password. Press ENTER. The V-CHIP menu appears.
4. Press ∧ or ∨ to highlight CHANGE PASSWORD and press > to display the CHANGE PASSWORD menu.
5. Use the Channel Number buttons (0-9) to enter a new code. Press ENTER.
6. Enter the password again to confirm it, and then press ENTER.
7. Press MENU repeatedly until the menu screen is cleared.
   Note: *To return to normal viewing immediately, press EXIT.*

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Using the V-Chip (parental control) feature

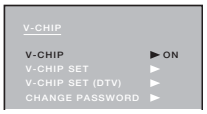
The Motion Picture Association of America (MPAA) uses a rating system to qualify motion picture content. Television broadcasters also employ a rating system to qualify the content of television programs. The TV and MOVIE ratings work with the V-Chip feature and allow you to block programs according to the rating limits you set.

To use the V-Chip to block programs by rating:

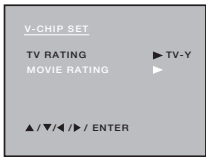
1. Press MENU, then press < or > to display the OPTION menu.
2. Press ∧ or ∨ to select V-CHIP, then press >.
3. Use the Channel Number buttons (0-9) to enter your password. Press ENTER. The V-CHIP menu appears.
4. Press ∧ or ∨ to highlight V-CHIP.
   - Press < or > to highlight ON to enable V-Chip program blocking by rating.
   - Press < or > to highlight OFF to disable V-Chip program blocking by rating.

Analog mode

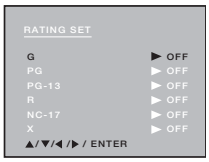
5. Press ∧ or ∨ to highlight V-CHIP SET. Then, press > to display the V-CHIP SET menu.
6. Press ∧ or ∨ to highlight TV RATING. Then, press < or > to display the desired rating.



Digital mode

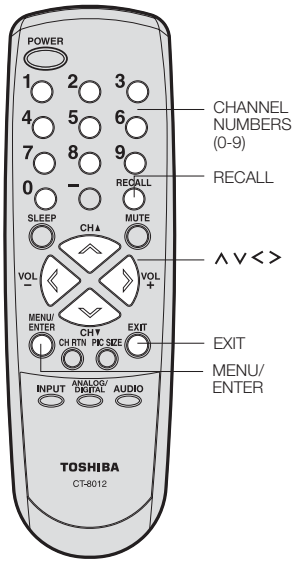


   OFF : TV RATING is not set
   TV-Y : All children
   TV-Y7 : 7 years old and above
   TV-G : General audience
   TV-PG : Parental guidance
   TV-14 : 14 years old and above
   TV-MA : 17 years old and above
   - When you select TV-Y7, TV-PG, TV-14, or TV-MA, press RECALL to explain the rating. Press ∧ / ∨ to select the desired rating you want. Press < or > to select the setting ON or OFF.
7. Press ∧ or ∨ to highlight MOVIE RATING. Then, press > to display the RATING SET menu. Press ∧ or ∨ to select the desired rating, then press < or > to select ON or OFF.



   G : All ages
   PG : Parental guidance
   PG-13 : Parental guidance less than 13 years old
   R : Under 17 years old Parental guidance suggested
   NC-17 : 17 years old and above
   X : Adult only
8. Press MENU repeatedly until the menu screen is cleared.
   Note: *To return to normal viewing immediately, press EXIT.*

When you try to view a program with a ratings block, a message will appear listing the program's ratings. The program can still be viewed if you enter your password to temporarily bypass the block.



Note:

- *If you forget your password, press RECALL four times within five seconds while the TV is in password entering mode. This allows you to reset your password.*
- *You can use V-CHIP SET (DTV) function when the digital broadcasting with a new rating system is received on the TV.*

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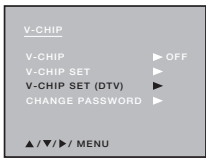
Downloading the additional V-Chip rating system

As a supplement to the standard V-Chip rating system, your Toshiba Television will be able to download an additional rating system, if such a system becomes available in the future.

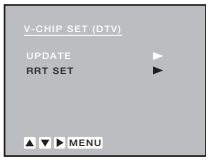
To download the additional V-Chip rating system (when available):

1. Press MENU in the digital mode, then press < or > to display the OPTION menu.
2. Press ∧ or ∨ to select V-CHIP, then press >.
3. Use the Channel Number buttons (0-9) to enter your password. Press ENTER. The V-CHIP menu appears.
4. Press ∧ or ∨ to highlight V-CHIP SET (DTV), then press >.
   Note: *You cannot select this feature if the TV is not receiving a digital signal for the current station.*



5. If the TV is not storing the additional rating system, the TV will begin downloading it, which may take some time to be completed.

6. Press ∧ or ∨ to select RRT SET, then then press >, and set your preferred content rating limits for the additional rating system.

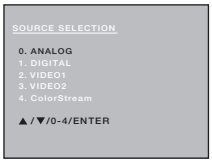


Note:

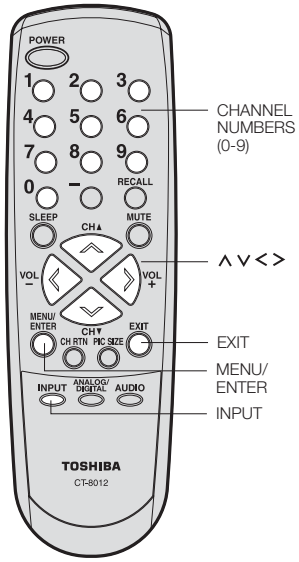
- *You can only download the additional V-Chip rating system when your TV is receiving a digital signal.*
- *When you download the additional rating system, it may take some time for the download to occur.*
- *The V-Chip rating information and system are not determined or controlled by the TV or Toshiba.*
- *The standard V-Chip rating system is available whether your TV is receiving a digital signal or not, and will block both analog and digital programs. To set program blocking using the standard V-Chip rating system, select V-CHIP SET in step 4 (see page 16 for details).*
- *The downloadable V-Chip rating system is an evolving technology, and availability, content, and format may vary.*

Selecting the audio/video input source

Press INPUT to view a signal from another device connected to your TV, such as a VCR or DVD player. You can select ANALOG, DIGITAL, VIDEO 1, VIDEO 2, or ColorStream, depending on which input jacks you used to connect your devices (see "Connecting your TV" on page 7).



- Pressing INPUT on the remote control displays the current signal source for 4 second.
- Press ∧ / ∨ or Number buttons (0-4) to select desired mode, then press ENTER.

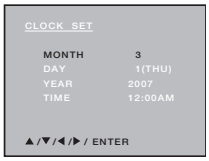


Using the TV's features

Setting the clock

To set the clock: (Example: "8:30 AM" March, 31 (SAT), 2007)

1. Press MENU, then press < or > to display the SETUP menu.
2. Press ∧ or ∨ to highlight CLOCK SET, then press >.
3. Press < or > to set the MONTH, then press ∨.
4. Set the DAY, YEAR and TIME as in step 3, then press ENTER.
   After setting the clock, the date and time function starts automatically.
5. Press MENU repeatedly until the menu screen is cleared.
   Note: *To return to normal viewing immediately, press EXIT.*



Note:

- *After a power failure or disconnection of the power, the clock settings will be lost. In this case, reset the present time.*
- *When you set the minute, you can change in 10-minutes step by holding down < or >.*

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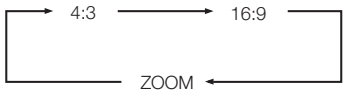
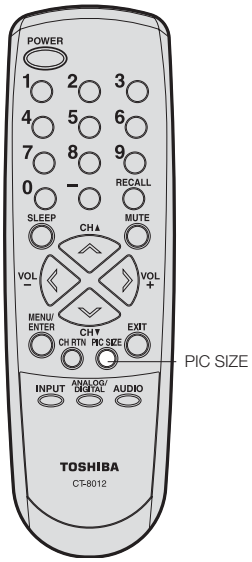
Viewing the wide-screen picture formats

You can view 480i format programs in a variety of picture sizes—4:3, 16:9, ZOOM.

The way the image displays in any of the picture sizes will vary depending on the format of the program you are viewing. Select the picture size that displays the current program the way that looks best to you.

To select the picture size:
Repeatedly press PIC SIZE on the remote control to cycle among the three picture sizes, as described below.





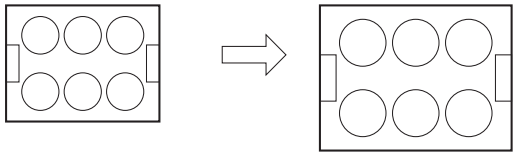
Available picture sizes for the various input sources

○ : available / × : not available

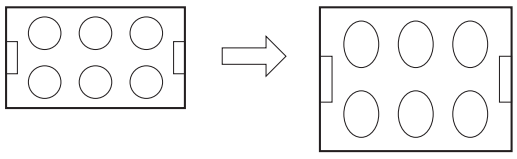
Input source	Picture size 4:3	16:9	ZOOM
4:3 format program (analog) or external input	○	○	×
4:3 format program (digital)	○	×	×
16:9 (squeezed) format program (digital)	○	○	○

4:3 picture size

- If receiving a 4:3 format (analog or digital) program, selecting 4:3 PIC SIZE will typically display the image in its original formatted proportion.



- If receiving a 16:9 format (digital) program, selecting 4:3 PIC SIZE will typically display the image stretched taller (squeezed).



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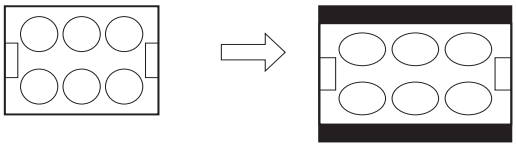
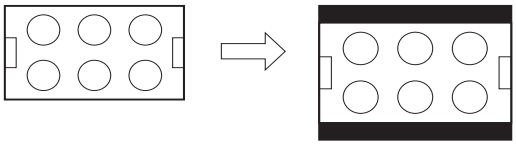
16:9 picture size

- If receiving a 4:3 format digital program, the 16:9 PIC SIZE is not available.
- If receiving a 4:3 format analog program, selecting 16:9 PIC SIZE will typically display the image stretched wider with bars at the top and bottom.

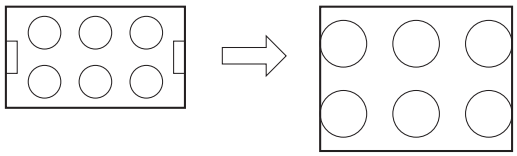


- If receiving a 16:9 format (digital) program, selecting 16:9 PIC SIZE will typically display the image in its original formatted proportion with bars at the top and bottom.



ZOOM picture size (for 16:9 format programs)

- If receiving a 4:3 format (analog or digital) program, the ZOOM PIC SIZE is not available.
- If receiving a 16:9 format (digital) program, selecting ZOOM PIC SIZE will typically enlarge the image, retaining the original formatted proportion, but with the sides edges hidden.



NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE DISPLAY
Avoid displaying stationary images on your TV screen for extended periods of time. Fixed (non-moving) patterns or images (including but not limited to PIP/POP windows, closed captions, video game patterns, TV station logos, stock tickers, websites, and special formats that do not use the entire screen) can become permanently ingrained in the cathode ray tube(s) of the TV and cause subtle but permanent ghost images. **This type of damage is NOT COVERED BY YOUR WARRANTY.**

Using these functions to change the picture size (i.e., changing the height/width ratio) for any purpose other than your private viewing may be prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

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Adjusting the picture

Adjusting the picture quality

You can adjust the picture quality to your personal preferences, including the brightness, contrast, color, tint, and sharpness.

To adjust the picture quality:

1. Press MENU, then press < or > to display the PICTURE menu.
2. Press ∧ or ∨ until the item you want to adjust is highlighted.

3. Press < or > to adjust the level.

Selection	< Pressing >	
BRIGHTNESS	darker	lighter
CONTRAST	lower	higher
COLOR	paler	deeper
TINT	reddish	greenish
SHARPNESS	softer	sharper

4. Press MENU repeatedly until the menu screen is cleared.
   Note: *To return to normal viewing immediately, press EXIT.*

Resetting your picture adjustments

The RESET function returns your picture quality adjustments to the following factory settings:

Brightness.....center (0)
Contrast.....max (32)
Color.....center (0)
Tint .....center (0)
Sharpness.....center (0)

To reset your picture adjustments:

1. Press MENU, then press < or > to display the PICTURE menu.
2. Press ∧ or ∨ to highlight RESET, and then press >.

Setting the sleep timer

You can use the sleep timer to automatically turn off the TV at a set time.

To set the sleep timer:

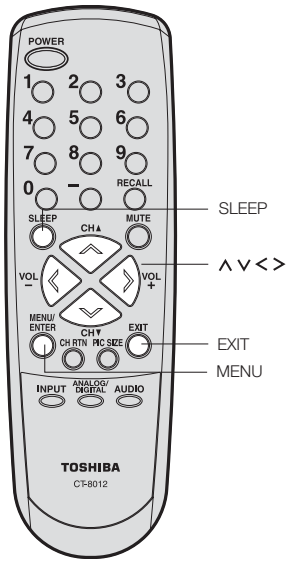
Repeatedly press SLEEP on the remote control to set the length of time until the TV turns off. The clock will increase 10 minutes for each press of the SLEEP button (0, 10, 20, ... 110, 120). After the sleep timer is programmed, the display will appear briefly every ten minutes to remind you that the sleep timer is operating.

To confirm the sleep timer setting:

Press SLEEP one time. The remaining time will be momentarily displayed.

To cancel the sleep timer:

Repeatedly press SLEEP until the display turns to 0.



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Adjusting the sound

Muting the sound

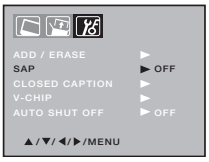
Press MUTE to temporarily turn off the sound. While the sound is off, the screen will display the word MUTE in the upper right-hand corner. To restore the sound, either press MUTE again or press VOL+/–.

Selecting stereo/SAP broadcasts

The multi-channel TV sound (MTS) feature provides high-fidelity stereo sound. MTS also can transmit a second audio program (SAP) containing a second language or other audio information (when available).

To set the SAP:

1. Press MENU in the analog mode, then press < or > to display the OPTION menu.
2. Press ∧ or ∨ to select SAP, then press < or > to select ON or OFF.



3. Press MENU repeatedly until the menu screen is cleared.
   Note: *To return to normal viewing immediately, press EXIT.*

To listen to stereo sound:

When the TV is turned on or a channel selection is made, the STEREO will appear on the screen. This means that Stereo broadcasting is available. You can enjoy stereo sound from the left and right speakers.

- When mono broadcasting is received, no indication is displayed.
- If the broadcasting signal is not strong enough or clear stereo sound is not available, press AUDIO to change to mono sound. The noise should be eliminated. Press it again to return to the stereo sound.

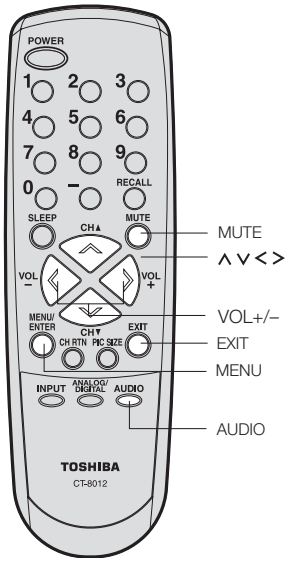
To listen to second audio program (SAP):

When the TV is turned on or a channel selection is made, SAP will appear on the screen. This means that the Second Audio Program broadcasting is available.

To select desired sound:

Press AUDIO to select the desired sound.

Broadcast	SAP setting	Audio display
MONO	OFF	MONO
	ON	MONO
STEREO	OFF	STEREO ↔ MONO
	ON	STEREO ↔ MONO
MONO+SAP	OFF	MONO
	ON	SAP
STEREO	OFF	STEREO ↔ MONO
	ON	SAP



Note:

A second audio program (SAP) can be heard only on those TV stations that offer it.

For example, a station might broadcast music as a second audio program. If you have SAP on, you will see the current program on the screen but hear music instead of the program's normal audio.

However, if you have SAP on, and the station you are watching is not currently broadcasting a second audio program, the station's normal audio will be output; however, occasionally there is no sound at all in SAP mode. If this happens, set the SAP to OFF.

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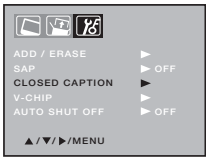
Using the closed caption feature

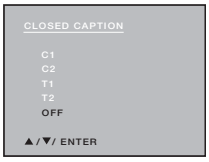
The Closed Caption feature has two options:

- Captions—An on-screen display of the dialogue, narration, and sound effects of programs and videos that are closed-captioned (usually identified in your local TV listings as "CC").
- Text—An on-screen display of information not related to the program, such as weather or stock data (if available in your viewing area).

To view closed captions (analog mode):

1. Tune the TV to the desired program in the analog mode.
2. Press MENU, and then press < or > to display the OPTION menu.
3. Press ∧ or ∨ to highlight CLOSED CAPTION, then press >.
4. Press ∧ or ∨ to select the desired Closed Caption mode, then press ENTER, as follows:
   - To view captions, select C1 or C2 (C1 displays translation of the primary language in your area).
     Note: If the program or video you selected is not closed captioned, no captions will display on-screen.
   - To view text, select T1 or T2.
     Note: If text is not available in your viewing area, a black rectangle may appear on-screen. If this happens, set the Closed Caption feature to OFF.





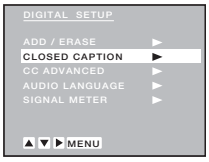
5. Press MENU repeatedly until the menu screen is cleared.
   Note: *To return to normal viewing immediately, press EXIT.*

To turn off the Closed Caption feature (analog mode):

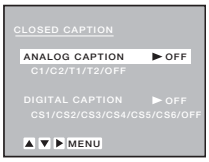
Highlight OFF in step 4, above.

To view closed captions (digital mode):

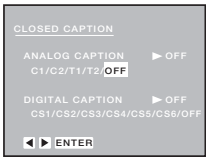
1. Tune the TV to the desired program in the digital mode.
2. Press MENU, and then press < or > to display the OPTION menu.
3. Press ∧ or ∨ to highlight DIGITAL SETUP, then press >.
4. Press ∧ or ∨ to highlight CLOSED CAPTION, then press >.



5. Press ∧ or ∨ to select ANALOG CAPTION or DIGITAL CAPTION, then press >.



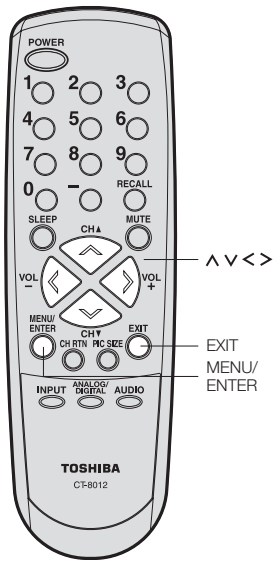
6. Press < or > to select the desired Closed Caption mode, then press ENTER.



7. Press MENU repeatedly until the menu screen is cleared.

To turn off the Closed Caption feature (digital mode):

Highlight OFF in step 6, above.



Note:

A closed caption signal may not be decoded in the following situations:

- *when a video tape has been dubbed*
- *when the signal reception is weak*
- *when the signal reception is non-standard*

NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE DISPLAY

Avoid displaying stationary images on your TV screen for extended periods of time. Fixed (non-moving) patterns or images (including but not limited to PIP/POP windows, closed captions, video game patterns, TV station logos, stock tickers, websites, and special formats that do not use the entire screen) can become permanently ingrained in the cathode ray tube(s) of the TV and cause subtle but permanent ghost images. **This type of damage is NOT COVERED BY YOUR WARRANTY.**

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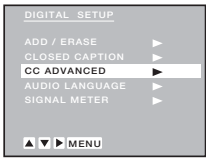
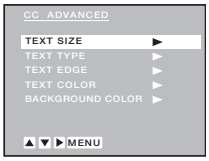
Using the CC advanced feature

This feature is designed to customize digital captions only.

1. Tune the TV to the desired program in the digital mode.
2. Press MENU, then press < or > to display the OPTION menu.
3. Press ∧ or ∨ to highlight DIGITAL SETUP, then press >.
4. Press ∧ or ∨ to highlight CC ADVANCED, then press >.



5. Press ∧ or ∨ to select the desired item to adjust, then press >.



6. Press ∧ or ∨ to select the desired setting, then press ENTER.

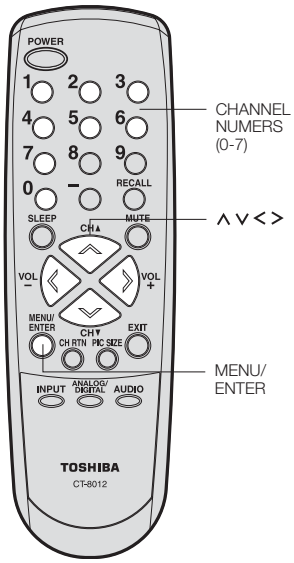
   You can select from among the following items and parameters.

TEXT SIZE:	AUTO, SMALL, STANDARD, LARGE
TEXT TYPE:	AUTO, DEFAULT, MONO W. SERIF, PROP W. SERIF, MONO W/O. SERIF, PROP W/O. SERIF, CASUAL, CURSIVE, SMALL CAPITALS
TEXT EDGE:	AUTO, NONE, RAISED, DEPRESSED, UNIFORM, LEFT DROP SHADOW, RIGHT DROP SHADOW
TEXT COLOR:	AUTO, BLACK, WHITE, RED, GREEN, BLUE, YELLOW, MAGENTA, CYAN
BACKGROUND COLOR:	AUTO, BLACK, WHITE, RED, GREEN, BLUE, YELLOW, MAGENTA, CYAN

7. Press MENU repeatedly until the menu screen is cleared.

Note:

Do not set the TEXT COLOR and BACKGROUND COLOR as the same color or you will not be able to see the text.



Selecting the audio languages

When two or more audio languages are included in a digital signal, you can select one of the audio languages.

To select the audio language:

1. Press MENU in the digital mode, then press < or > to display the OPTION menu.
2. Press ∧ or ∨ to highlight DIGITAL SETUP, then press >.
3. Press ∧ or ∨ to highlight AUDIO LANGUAGE, then press >.

4. Press ∧ / ∨ or Number buttons (0-7) to select the desired language, then press ENTER.
5. Press MENU repeatedly until the menu screen is cleared.

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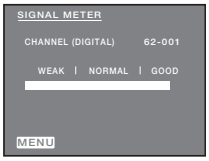
Checking the digital signal strength

You can check the strength of the digital signal by viewing the digital signal meter.

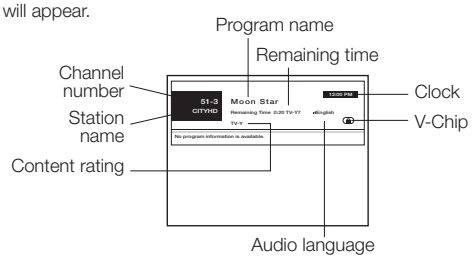
To view the digital signal meter:

1. Press MENU in the digital mode, then press < or > to display the OPTION menu.
2. Press ∧ or ∨ to select DIGITAL SETUP, then press >.
3. Press ∧ or ∨ to highlight SIGNAL METER.
4. Press > to check the digital signal strength.
5. Press MENU repeatedly until the menu screen is cleared.

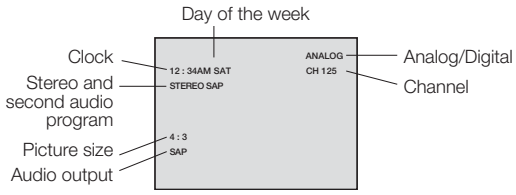


Displaying TV status information on-screen

Press RECALL to display the information on the screen.
When the TV receives a digital signal, press once, the digital information will appear.



Press RECALL again, the analog information will appear.
To cancel the display, press RECALL again.



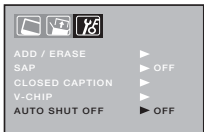
Using the auto shut off feature

If the Auto Shut Off is ON, the TV will turn off after approximately 15 minutes if it is tuned to a vacant channel or a station that completes its broadcast for the day and stops broadcasting on that channel.

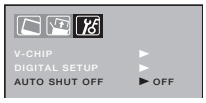
To use the auto shut off feature:

1. Press MENU, then press < or > to display the OPTION menu.
2. Press ∧ or ∨ to highlight AUTO SHUT OFF, then press < or > to select ON or OFF.
3. Press MENU repeatedly until the menu screen is cleared.

Note: *To return to normal viewing immediately, press EXIT.*



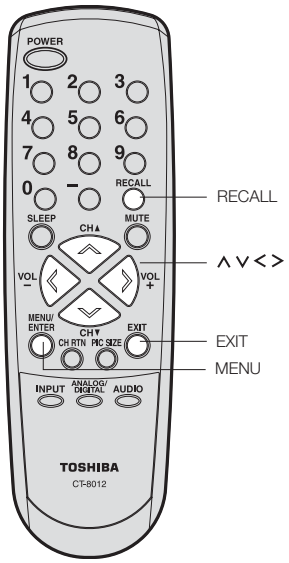
Analog mode



Digital mode

Note:

- *The SIGNAL METER feature is not available for analog channels.*
- *After approximately 240 seconds, the SIGNAL METER screen will return to normal TV-operation automatically.*
- *When you select a vacant channel, the signal meter may react.*



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Understanding the Power Return feature

If the power is cut off while you are viewing the TV and the power is resupplied, the Power Return feature will turn the TV on automatically. If the power is going to be off for a long time or you are going to be away from the TV for a long time, unplug the power cord from the wall outlet to prevent the TV from turning on in your absence.

Appendix

Troubleshooting

Before calling a service technician, please check the following table for a possible cause of the symptom and some solutions.

Symptom	Solution
Black box on screen	• Select OFF in the Closed Caption menu to turn off the Closed Caption Text mode. • If you connected a high-definition receiver, 480p progressive scan DVD player, or other similar device to this TV, you must switch the device's output to 480i interlaced mode first. Failure to do this will display the words "NO SIGNAL OR NOT SUPPORTED VIDEO RESOLUTION" on a black screen.
TV will not turn on	• Make sure the power cord is plugged in, then press POWER. • The remote control batteries may be dead. Replace the batteries.
No picture, no sound	• Check the antenna/cable connections.
No sound, picture OK	• The sound may be muted. Press VOLUME. • The station may have broadcast difficulties. Try another channel. • Set SAP to OFF in the OPTION menu.
Poor sound, picture OK	• The station may have broadcast difficulties. Try another channel. • Set SAP to OFF in the OPTION menu.
Poor picture, sound OK	• Check the antenna connections. • The station may have broadcast difficulties. Try another channel. • Adjust the PICTURE menu.
Poor reception of broadcast channels	• The station may have broadcast difficulties. Try another channel. • Check the antenna connections.
Cannot receive above channel 13	• Make sure the TV/CABLE feature in the SETUP menu is set to CABLE.
Unable to select a certain channel	• The channel may be blocked by the V-Chip feature or erased with the add/erase feature.
Multiple images	• The station may have broadcast difficulties. Try another channel. • Use a highly directional outdoor antenna.
Poor color or no color	• The station may have broadcast difficulties. Try another channel. • Adjust the TINT and/or COLOR in the PICTURE menu. • If you change the direction of the TV while it is turned on, the picture could suffer from color shading. If so, turn off the TV and allow it to cool for several hours before turning it on again.
No stereo or SAP sound from a known MTS broadcast	• Make sure the SAP feature (in the OPTION menu) is set to ON.
The V-Chip password does not work (U.S. V-Chip system only)	• Change or reset your password.
The remote control does not operate	• Remove all obstructions between the remote control and the TV. • The remote control batteries may be dead. Replace the batteries.
Digital broadcasting screen problem	• Check the digital signal strength.

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Specifications

- This model complies with the specifications below.
- Design and specifications are subject to change without notice.
- This model may not be compatible with features and/or specifications that may be added in the future.

	27D47	32D47
Picture Tube	27 in. (676.0 mm) diagonal (Screen size is approximate.)	32 in, (800.1 mm) diagonal (Screen size is approximate.)
Television system	NTSC standard, ATSC standard (8VSB), QAM	
Channel coverage	VHF: 2–13 UHF: 14–69 Cable TV: 4A, A-5–A-1, A-I, J–W, W+1–W+84	
Power source	120 V AC, 60 Hz	
Power consumption	110 W	135 W
Audio power	1.0 W + 1.0 W	
Speaker type	2 x 3-1/2 in. (50.8 x 88.9 mm) x 2 pcs.	1-13/16 x 3-7/8 in. (45.7 x 99.1 mm) x 2 pcs.
Video/Audio terminals	S-VIDEO INPUT Y-INPUT: 1V (p-p), 75 ohm, negative sync. C-INPUT: 0.286V (p-p) (burst signal), 75 ohm VIDEO/AUDIO INPUT VIDEO: 1V (p-p), 75 ohm, negative sync. AUDIO: 150 mV (rms) (30% modulation equivalent, 47k ohm) ColorStream® (component video) INPUT Y: 1V (p-p), 75 ohm P_R: 0.7V (p-p), 75 ohm P_B: 0.7V (p-p), 75 ohm AUDIO OUTPUT 150 mV (rms) (30% modulation equivalent, 47k ohm)	
Dimensions	Width: 29-1/8 in. (740 mm) Height: 22-1/2 in. (571.5 mm) Depth: 19-3/8 in. (491.5 mm)	Width: 29-9/16 in. (751 mm) Height: 25-15/16 in. (658.5 mm) Depth: 21-3/4 in. (552 mm)
Weight	81.6 lbs. (37.0 kg)	114.7 lbs. (52.0 kg)
Supplied accessories	Remote control with two size “AAA” batteries	

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Limited United States Warranty
for Direct View Television Model 27D47 and 32D47

Toshiba America Consumer Products, L.L.C. ("TACP") makes the following limited warranties to original consumers in the United States. THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS TELEVISION AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.
TELEVISIONS PURCHASED IN THE U.S.A. AND USED ANYWHERE OUTSIDE OF THE U.S.A., INCLUDING, WITHOUT LIMITATION, CANADA AND MEXICO, ARE NOT COVERED BY THESE WARRANTIES.
TELEVISIONS PURCHASED ANYWHERE OUTSIDE OF THE U.S.A., INCLUDING, WITHOUT LIMITATION, CANADA AND MEXICO, AND USED IN THE U.S.A., ARE NOT COVERED BY THESE WARRANTIES.

Limited Ninety (90) Day Warranty on Labor
TACP warrants this television and its parts against defects in materials or workmanship for a period of ninety (90) days after the date of original retail purchase. DURING THIS PERIOD, TACP WILL, AT TACP'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOR. During this period, TACP Authorized Service Station personnel will come to your home when warranty service is required. Depending on the type of repair required, the service will either be performed in your home or the television will be taken to a TACP Authorized Service Station for repair and returned to your home at no cost to you.

Limited One (1) Year Warranty on Parts
TACP further warrants the parts in this television against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TACP WILL, AT TACP'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR THE PART, PROVIDED THAT IF A DEFECTIVE PART IS REPAIRED OR REPLACED AFTER NINETY (90) DAYS AFTER THE DATE OF ORIGINAL RETAIL PURCHASE, YOU MUST PAY ALL LABOR CHARGES IN CONNECTION WITH THE REPAIR OR REPLACEMENT THEREOF. After the date that is ninety (90) days after the date of original retail purchase, you may request in-home service at your expense, or you may deliver the entire television to a TACP Authorized Service Station. If you elect to deliver the entire television to a TACP Authorized Service Station, you must pay for all transportation and insurance charges for the television to and from the TACP Authorized Service Station.

Limited Two (2) Year Warranty on Picture Tube
TACP further warrants the picture tube in this television against defects in materials or workmanship for a period of two (2) years after the date of original retail purchase. DURING THIS PERIOD, TACP WILL, AT TACP'S OPTION, REPAIR OR REPLACE A DEFECTIVE PICTURE TUBE WITH A NEW OR REFURBISHED PICTURE TUBE WITHOUT CHARGE TO YOU, PROVIDED THAT IF A DEFECTIVE PICTURE TUBE IS REPAIRED OR REPLACED AFTER ONE (1) YEAR AFTER THE DATE OF ORIGINAL RETAIL PURCHASE, YOU MUST PAY FOR ALL LABOR CHARGES IN CONNECTION WITH THE REPAIR OR REPLACEMENT THEREOF. After the date that is ninety (90) days after the date of original retail purchase, you may request in-home service at your expense, or you may deliver the entire television to a TACP Authorized Service Station. If you elect to deliver the entire television to a TACP Authorized Service Station, you must pay for all transportation and insurance charges for the television to and from the TACP Authorized Service Station.

Rental Units
The warranty for television rental units begins on the date of the first rental or thirty (30) days after the date of shipment to the rental firm, whichever comes first.

Limited Warranty for Commercial Units
TACP warrants televisions that are sold and used for commercial purposes as follows: all parts are warranted against defects in materials or workmanship for a period of ninety (90) days after the date of original retail purchase. DURING THIS PERIOD, TACP WILL, AT TACP'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU.

Owner's Manual and Product Registration Card
Read this owner's manual thoroughly before operating this television. Complete and mail the enclosed product registration card or register your television online at **www.tacp.toshiba.com/service** as soon as possible. By registering your television you will enable TACP to bring you new products specifically designed to meet your needs and help us to contact you in the unlikely event a safety notification is required under the U.S. Consumer Product Safety Act. Failure to complete and return the product registration card does not diminish your warranty rights.

Your Responsibility
THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:
(1) You must retain your original bill of sale or provide other proof of purchase.
(2) All warranty servicing of this television must be performed by an Authorized TACP Service Station.
(3) The warranties from TACP are effective only if this television is purchased and operated in the Continental U.S.A. or Puerto Rico.
(4) Labor service charges for set installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by this warranty. Reception problems caused by inadequate antenna systems, misaligned satellite dishes, cable television distribution, VCRs, DVD players/recorders, personal computer level IEEE-1394 devices, and any other connected signal source device are your responsibility.

How to Obtain Warranty Service
If, after following all of the operating instructions in this manual and reviewing the section entitled "Troubleshooting," you find that service is needed:
(1) To find the nearest TACP Authorized Service Station, visit TACP's website at **www.tacp.toshiba.com/service** or contact TACP's Consumer Solution Center toll free at 1-800-631-3811.
(2) You must present your original bill of sale or other proof of purchase to the TACP Authorized Service Station.

For additional information, visit TACP's website: www.tacp.toshiba.com

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